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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S16	200	garbage adj collection with (simplif$7 optimiz$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/17 09:13
S17	0	garbage adj collection with (simplif$7 optimiz$5) same operands	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/17 09:14
S18	0	garbage adj collection with (simplif$7 optimiz$5) same operand	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/17 09:14
S19	7	garbage adj collection with (simplif$7 optimiz$5) same stack	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/17 09:19
S20	0	garbage adj collection with (simplif$7 optimiz$5) same spill	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/17 09:19
S21	4740	((garbage adj collection) verif$7) with (simplif$7 optimiz$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/17 09:19
S22	0	((garbage adj collection) verif$7) with (simplif$7 optimiz$5) same spill	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/17 09:20
S23	49	((garbage adj collection) verif$7) with (simplif$7 optimiz$5) same stack	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/17 09:20

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S24	42	S23 not S19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/17 09:20
S25	1	((garbage adj collection) verif$7) with (simplif$7 optimiz$5) same stack same bytecode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/17 09:20
S26	16	((garbage adj collection) verif$7) with (simplif$7 optimiz$5) same bytecode	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/17 09:20
S27	1486	((707/206) or (712/202) or (717/146-148)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/19 07:13
S28	1670	((707/206) or (712/202) or (717/146-148) or (369/47.33)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/19 07:22
S29	4745	((garbage adj collection) verif$7) with (simplif$7 optimiz$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/19 07:14
S30	84	S28 and S29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/19 07:13
S31	49	((garbage adj collection) verif$7) with (simplif$7 optimiz$5) same stack	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/19 07:14
S32	49	S29 and S31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/19 07:14

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S33	5	S28 and S31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/19 07:14
S34	597	(717/136).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/19 07:24
S35	88	(717/147).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/01/19 07:24

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1 Adaptive techniques: Optimistic stack allocation for java-like languages
Erik Corry
June 2006 **Proceedings of the 2006 international symposium on Memory management ISMM '06**
Publisher: ACM Press
Full text available: pdf(155.23 KB) Additional Information: full citation, abstract, references, index terms

Stack allocation of objects offers more efficient use of cache memories on modern computers, but finding objects that can be safely stack allocated is difficult, as interprocedural escape analysis is imprecise in the presence of virtual method dispatch and dynamic class loading. We present a new technique for doing optimistic stack allocation of objects. Our technique does not require interprocedural analysis and is effective in the presence of dynamic class loading, reflection and exception han ...

Keywords: Java, garbage collection, stack allocation

2 The Jalapeño dynamic optimizing compiler for Java
Michael G. Burke, Jong-Deok Choi, Stephen Fink, David Grove, Michael Hind, Vivek Sarkar, Mauricio J. Serrano, V. C. Sreedhar, Harini Srinivasan, John Whaley
June 1999 **Proceedings of the ACM 1999 conference on Java Grande JAVA '99**
Publisher: ACM Press
Full text available: pdf(1.34 MB) Additional Information: full citation, references, citings, index terms

3 Lambda, the ultimate label or a simple optimizing compiler for Scheme
William D. Clinger, Lars Thomas Hansen
July 1994 **ACM SIGPLAN Lisp Pointers , Proceedings of the 1994 ACM conference on LISP and functional programming LFP '94**, Volume VII Issue 3
Publisher: ACM Press
Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings, index terms

Optimizing compilers for higher-order languages need not be terribly complex. The problems created by non-local, non-global variables can be eliminated by allocating all such variables in the heap. Lambda lifting makes this practical by eliminating all non-local variables except for those that would have to be allocated in the heap anyway. The eliminated non-local variables become local variables that can be allocated in registers.

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The Boehm-Demer-Weiser **collector** implements a mark-sweep **garbage collector** that can replace C's malloc() function, scanning **stack** frames and registers for ...
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Discussions about the Boehm **Garbage Collector** (Boehm GC). ... things like floating point registers, if the compiler will **spill** integer registers to those. ...
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(course on) **garbage** collecting
Basically, a lot of computation has data properties "almost like a **stack**". We can take advantage of this by doing **garbage collection** less often on the older ...
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AR Adl-Tabatabai, M Cierniak, GY Lueh, VM Parikh, ... - Proceedings of the ACM SIGPLAN 1998 conference on ..., 1998 - portal.acm.org
... We discuss the details of **garbage collection** in Section 3. 2.2 Lazy ... that can be used,
generates code to **spill** the register to the **stack** frame, and ...
Cited by 135 - Related Articles - Web Search - BL Direct

Support for **garbage collection** at every instruction in a Java compiler - group of 2 »
JM Stichnoth, GY Lueh, M Cierniak - Proceedings of the ACM SIGPLAN 1999 conference on ..., 1999 - portal.acm.org
... pointers for loop optimizations, or for **spill** code. ... without creating a new Java **stack** frame ... **Garbage Collection** and Local Variable Type-Precision and Liveness in ...
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Z Ebrahim, AH Mohamed... - US Patent 5,893,121, 1999 - Google Patents
... use automatic **garbage collection** for storage management. ... an entire **stack** cache block
of N **stack** cache ... astack cache **spill** operation (also called a "swap out" ...
Cited by 21 - Related Articles - Web Search

[BOOK] Memory subsystem performance of programs using copying **garbage collection** - group of 16 »
A Diwan, D Tarditi, E Moss - 1994 - ACM Press New York, NY, USA
... With a suitable analysis, a **stack** can be used ... Imge enough to allow the **garbage collector**
to resize ... and others (includes **spill** records, arrays, strings, vectors ...
Cited by 37 - Related Articles - Web Search - Library Search - BL Direct

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JM O'Connor, M Tremblay - ieeexplore.ieee.org
... This means that **garbage collection** checks for inter- generational pointers (described ear- lier) occur only when strictly ... **Spill** ... Figure 3. picoJava-I **stack** cache ...
Cited by 103 - Related Articles - Web Search - BL Direct

Cycles to recycle: **garbage collection** to the IA-64 - group of 7 »
RL Hudson, JE Moss, S Subramoney, W Washburn - Proceedings of the second international symposium on Memory ..., 2000 - portal.acm.org
... in designing and implementing the memory management and **garbage collection** (GC)
portions ... The register **stack** mechanism and register **spill**/fill instructions ...

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Gupta, A.; Fuchs, W.K.;
Knowledge and Data Engineering, IEEE Transactions on
Volume 5, Issue 2, April 1993 Page(s):257 - 265
Digital Object Identifier 10.1109/69.219734
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2. **A highly effective partition selection policy for object database garbage c**
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Digital Object Identifier 10.1109/69.667100
AbstractPlus | References | Full Text: PDF(652 KB) **IEEE JNL**
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3. **The impact of realtime garbage collection on realtime Java programming**
Siebert, F.;
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4. **An on-chip garbage collection coprocessor for embedded real-time syste**
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Embedded and Real-Time Computing Systems and Applications, 2005. Proce International Conference on
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5. **Distributed garbage collection by timeouts and backward inquiry**
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Object and Component-Oriented Real-Time Distributed Computing, 2006. ISO
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